

F I G. 1

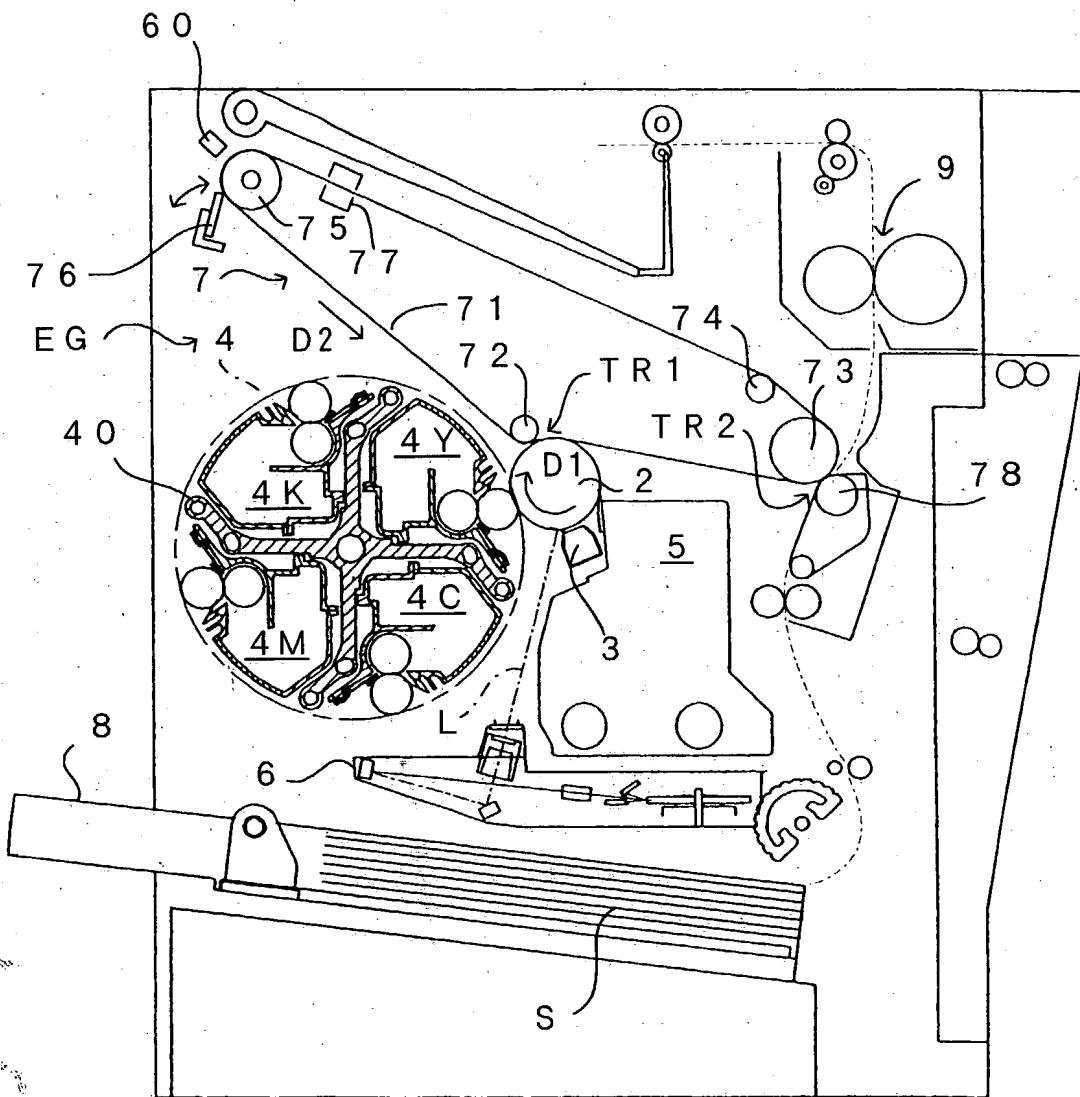
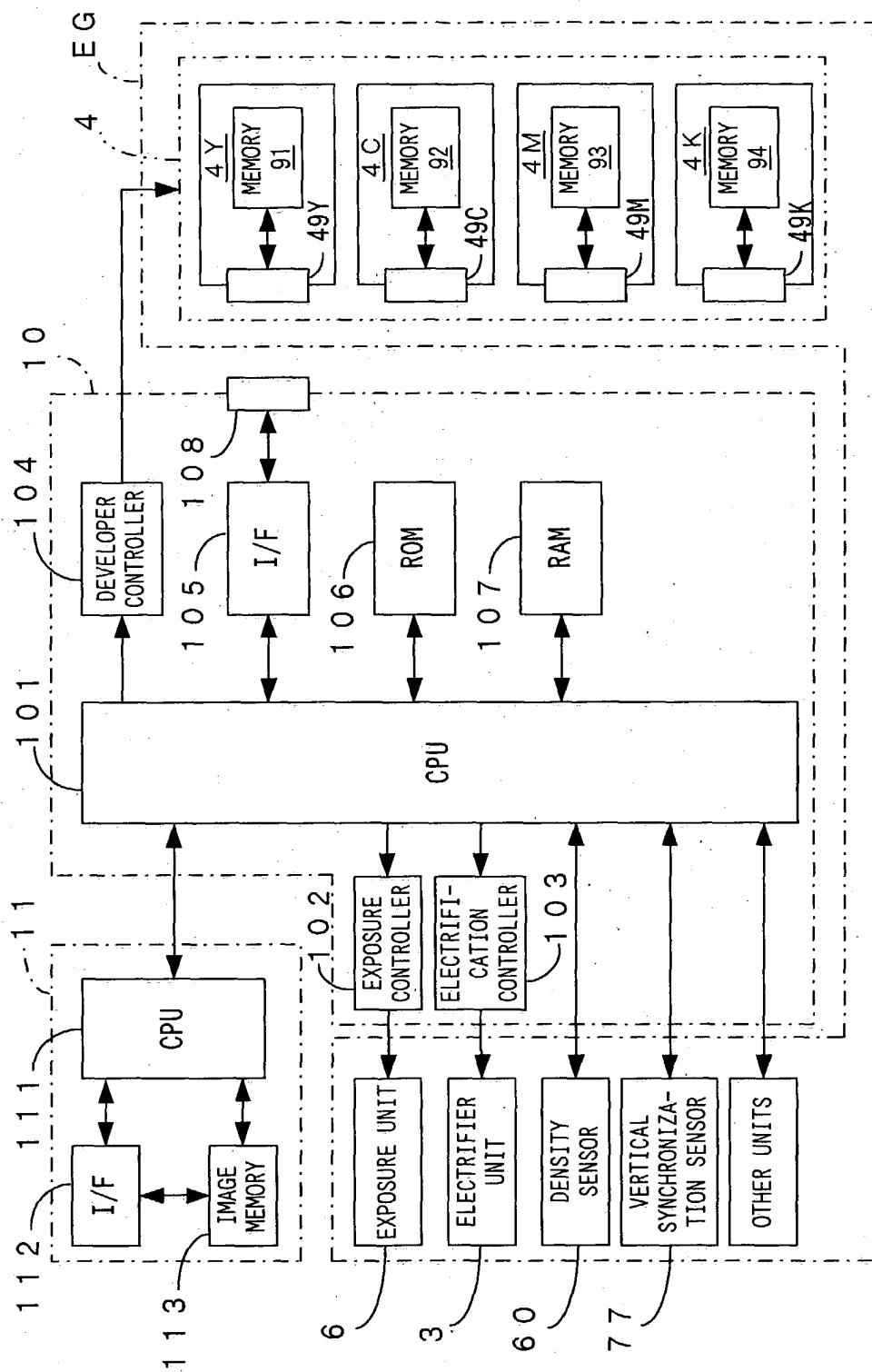


FIG. 2



F I G. 3

4K (4C, 4M, 4Y)

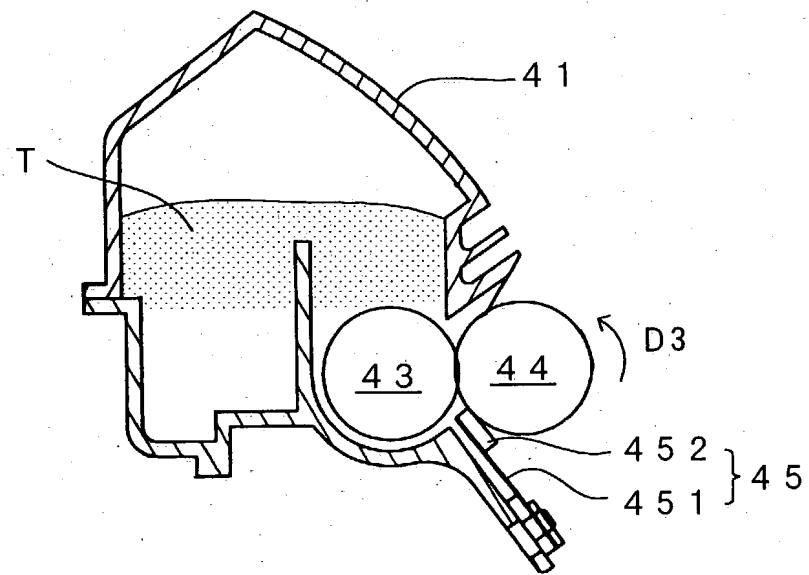
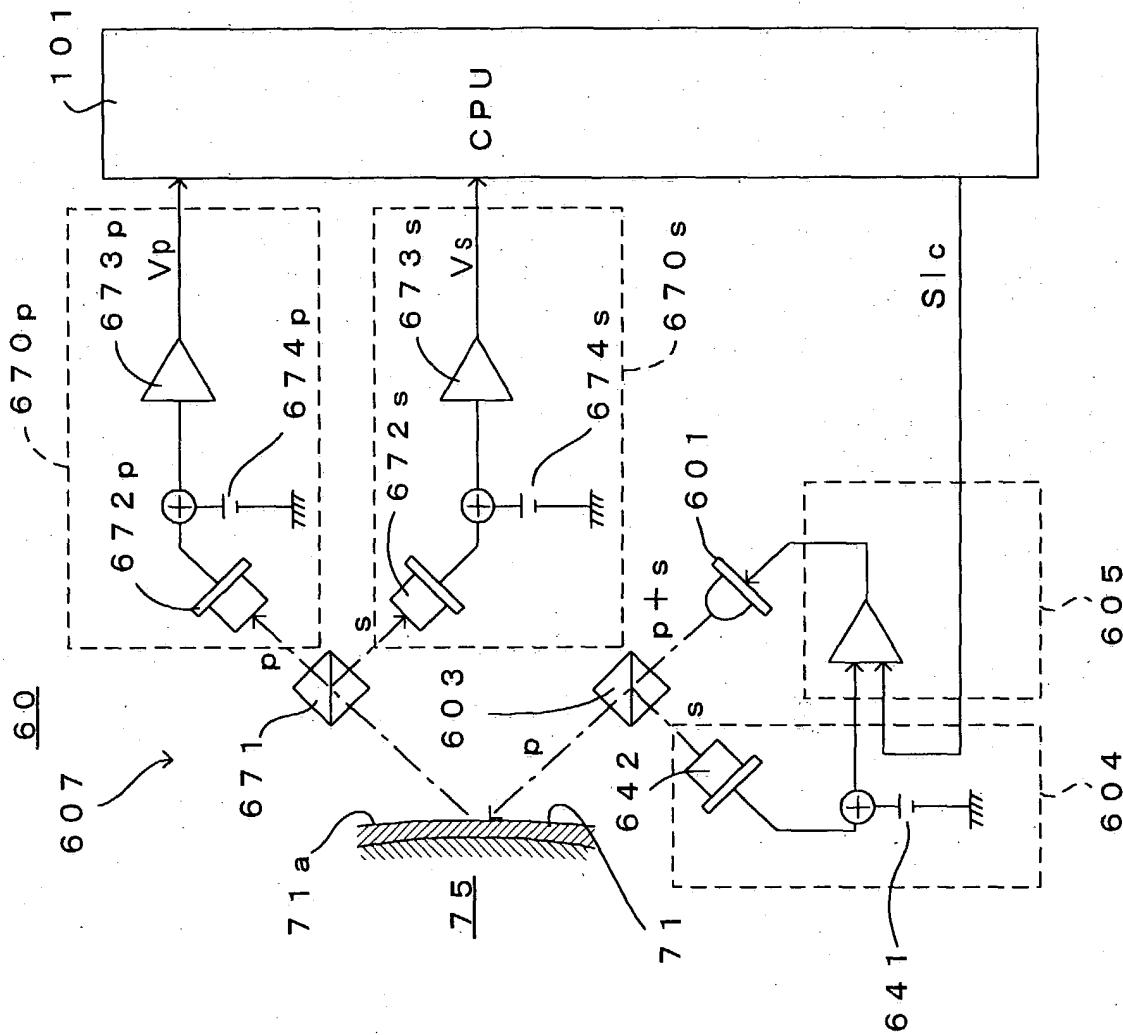


FIG. 4



F I G . 5

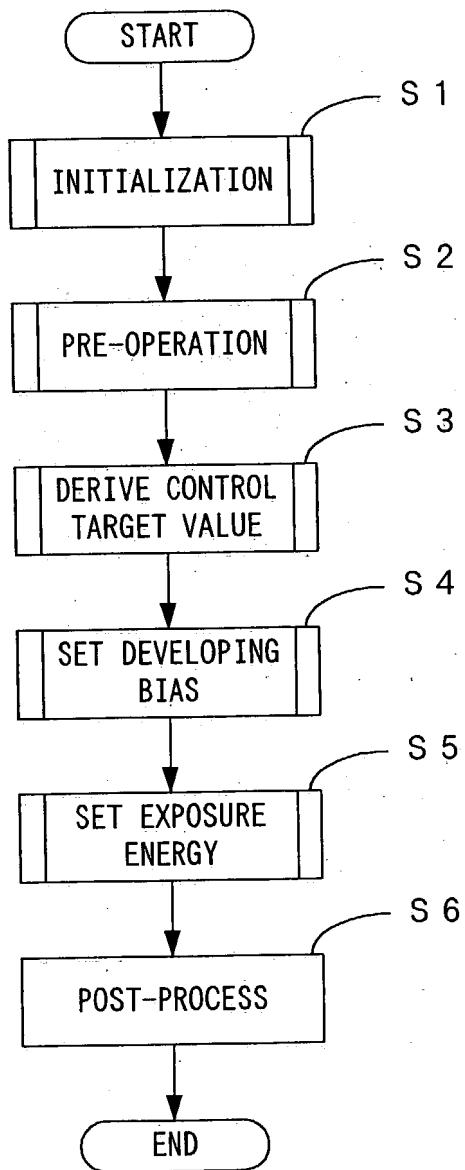
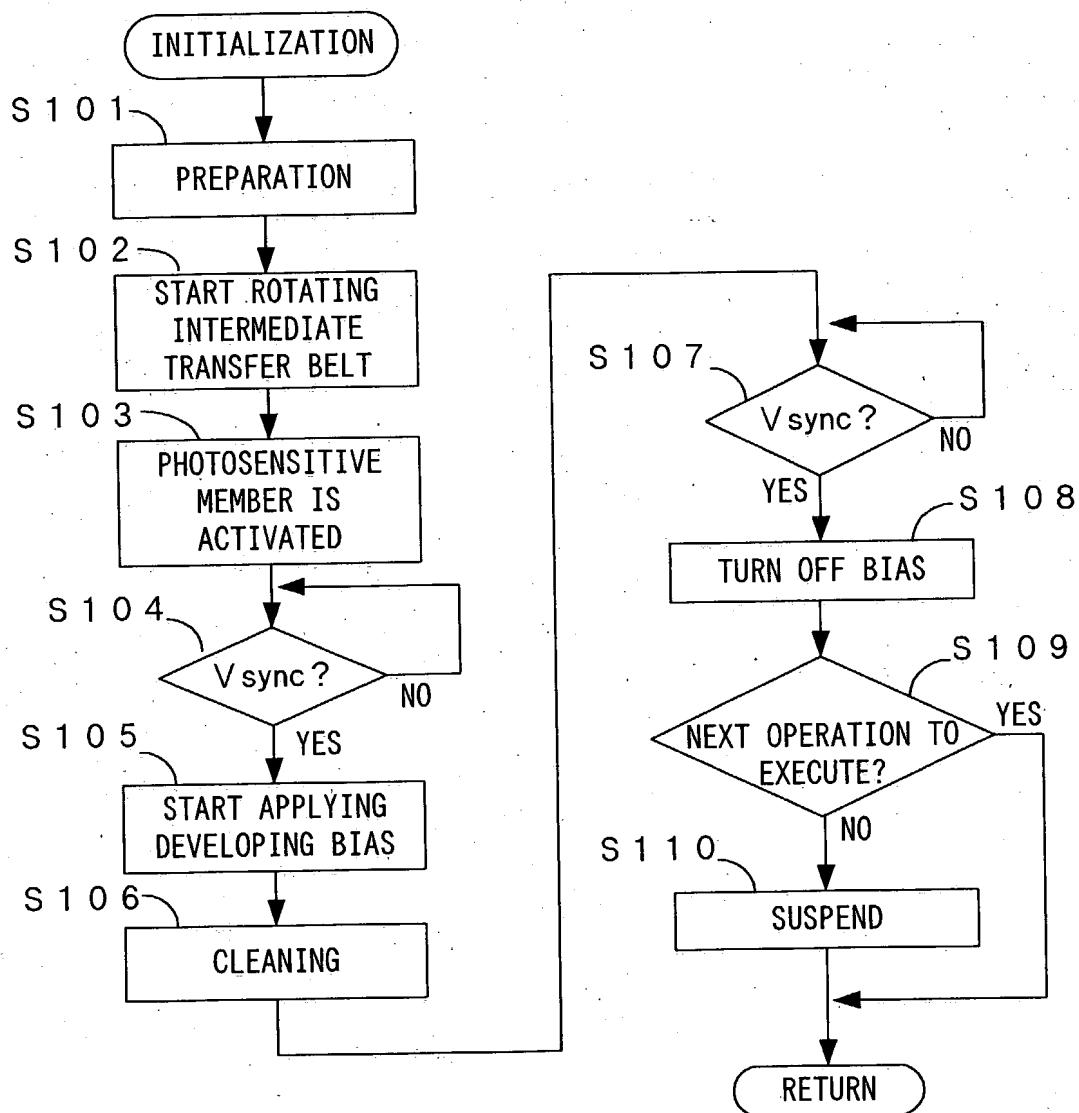


FIG. 6



F I G. 7

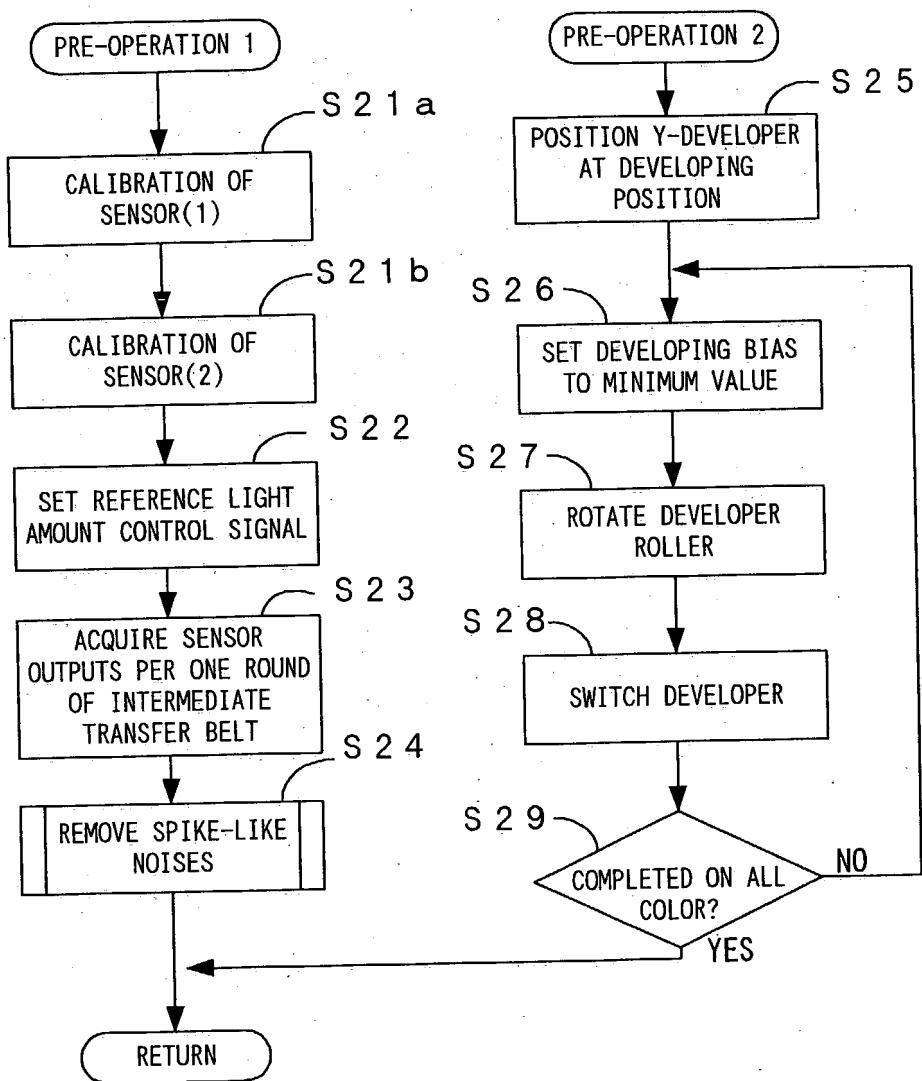


FIG. 8 A

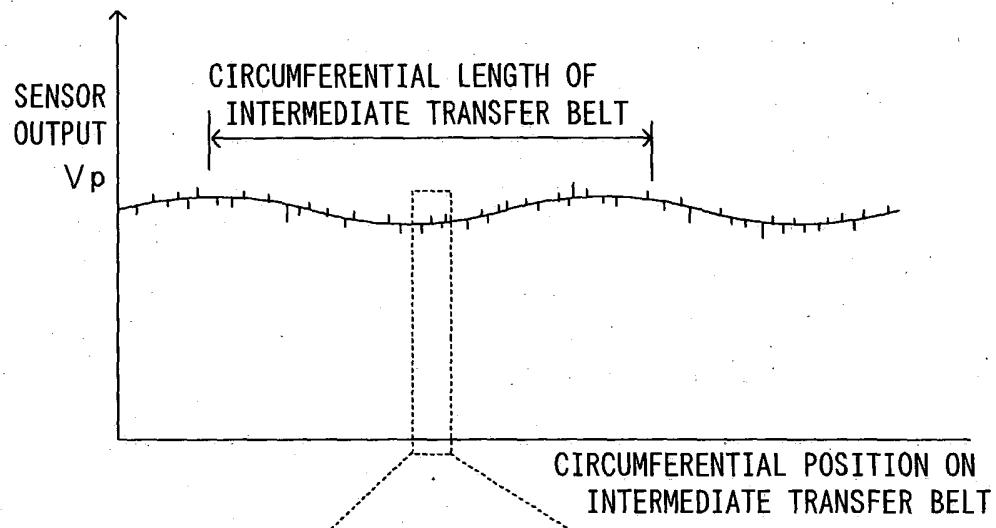
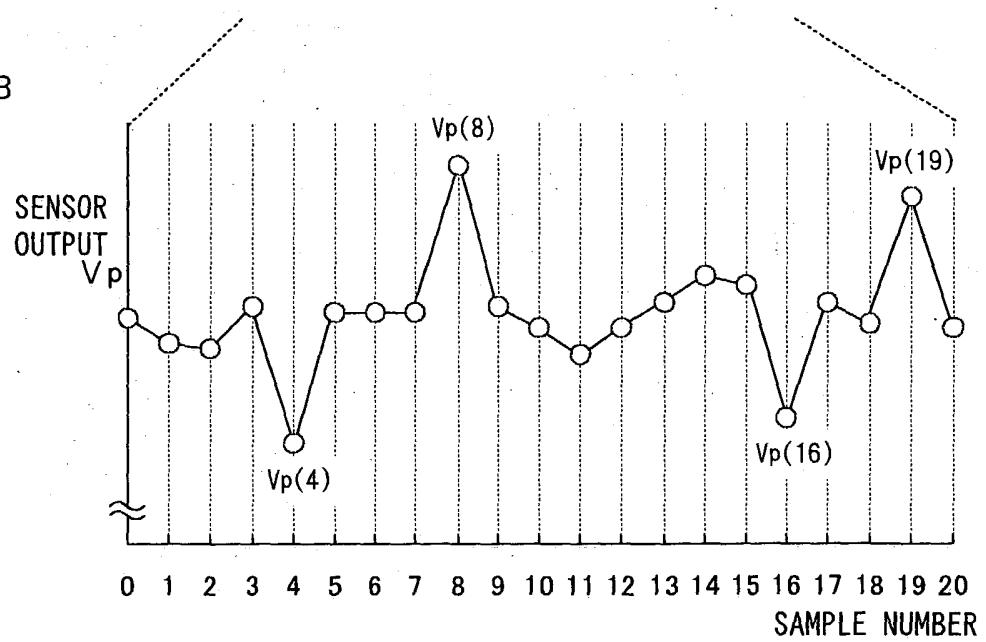


FIG. 8 B



F I G . 9

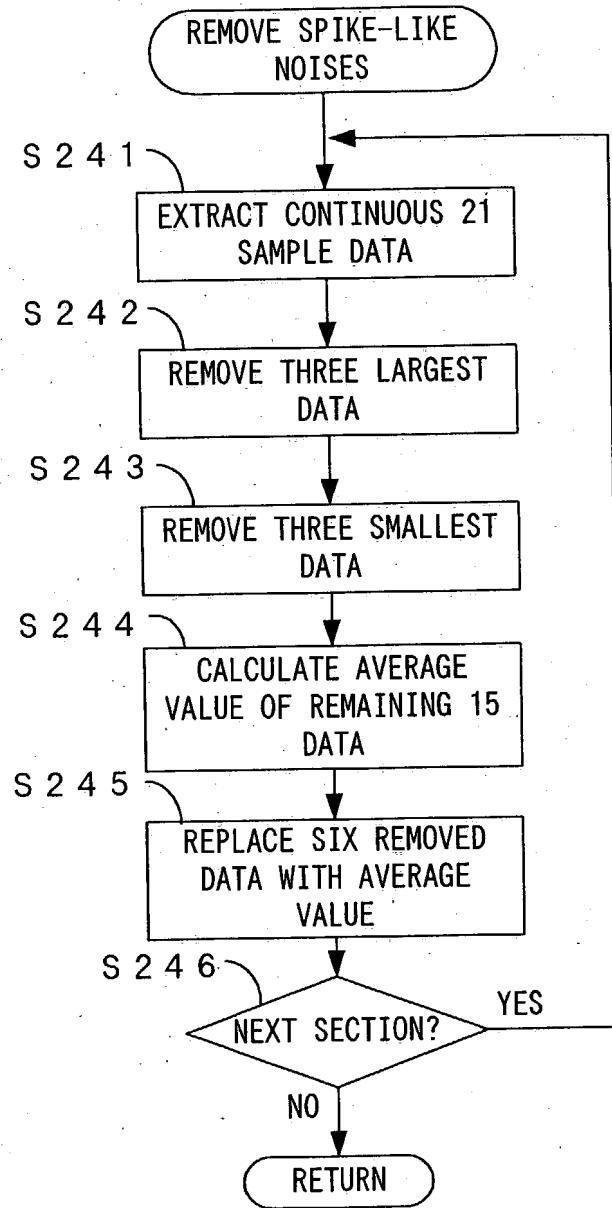


FIG. 10

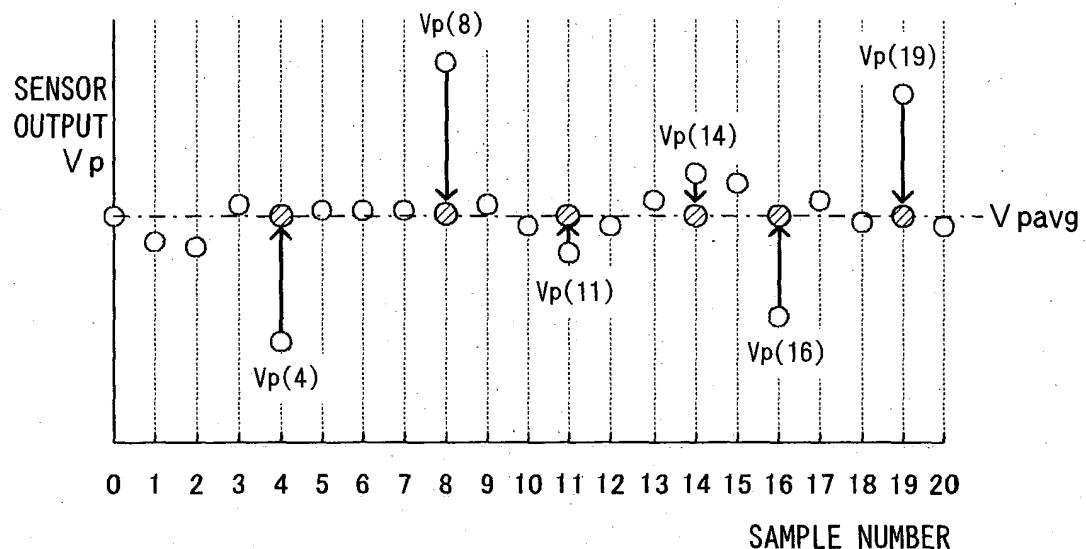


FIG. 11 A

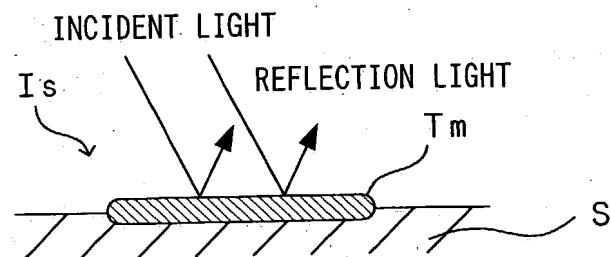


FIG. 11 B

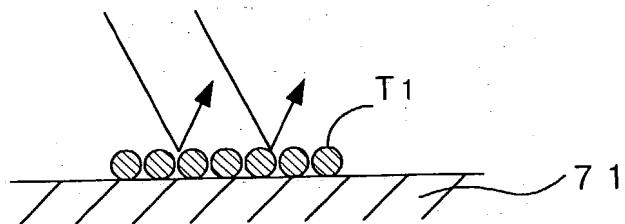


FIG. 11 C

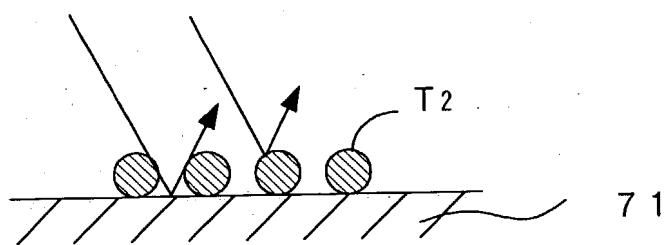


FIG. 12 A

DISTRIBUTION OF PARTICLE DIAMETER

DESIGN CENTRAL
VALUE

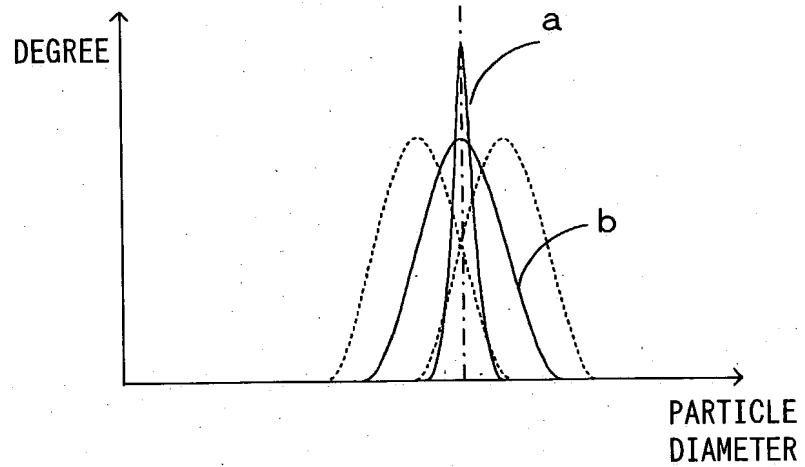


FIG. 12 B

CHANGE IN OD VALUE

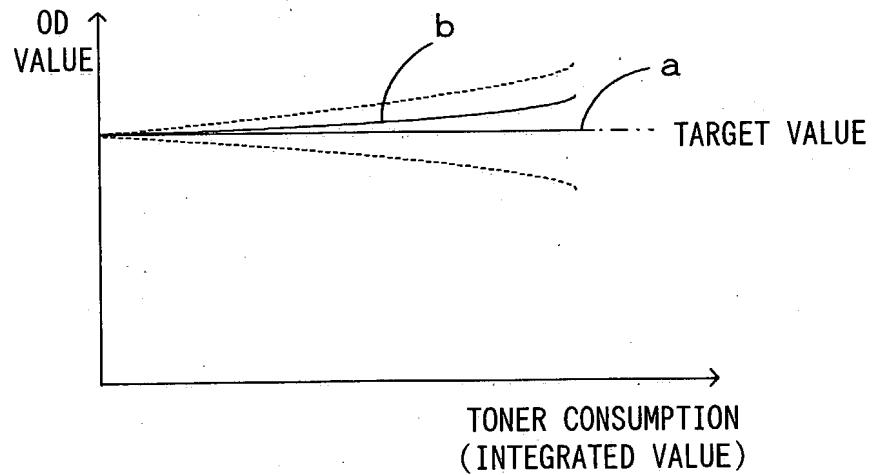


FIG. 13

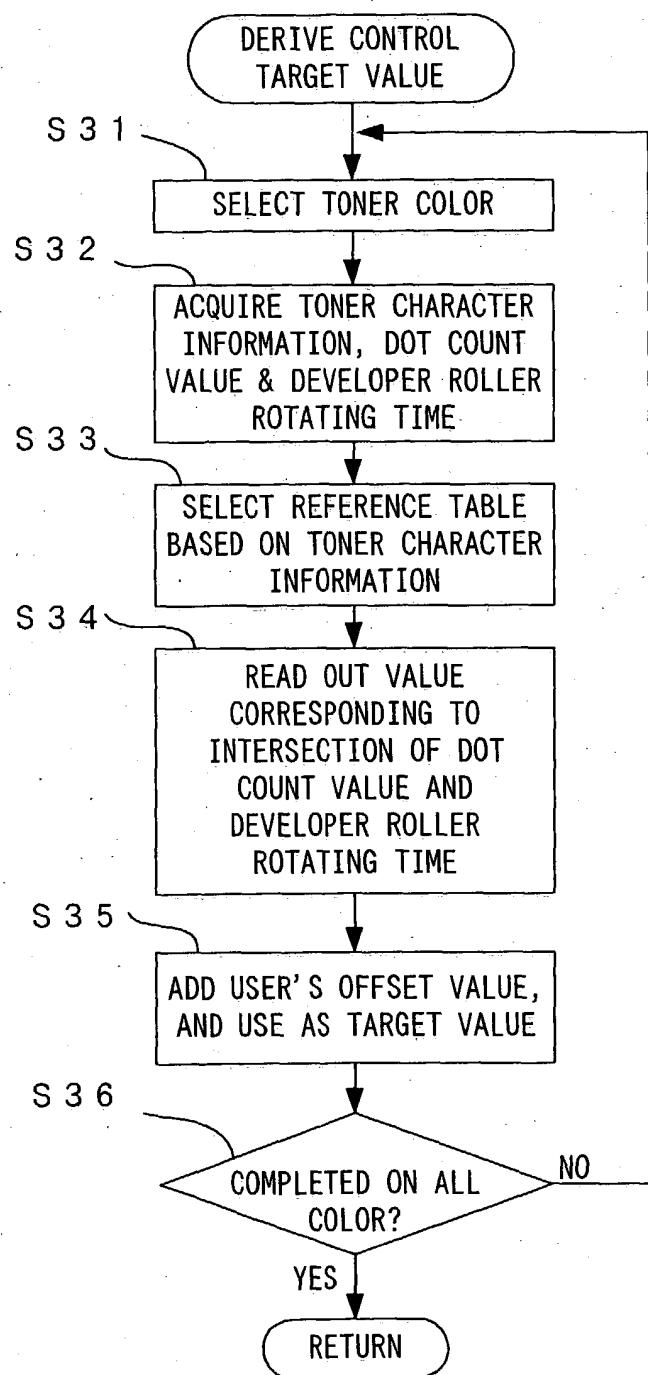


FIG. 14A HIGH-DENSITY PATCH IMAGE

| TONER CHARACTER INFORMATION = "0" | | DEVELOPER ROLLER ROTATING TIME(sec) | | | |
|--------------------------------------|-----------|-------------------------------------|-------|-------|--------|
| | | ~1325 | ~3975 | ~6625 | ~10600 |
| DOT COUNT | ~1000000 | 0.990 | 0.988 | 0.984 | 0.982 |
| | ~2000000 | 0.988 | 0.984 | 0.982 | 0.982 |
| | ~6666666 | 0.984 | 0.982 | 0.982 | 0.982 |
| | ~12000000 | 0.982 | 0.982 | 0.982 | 0.982 |

FIG. 14B LOW-DENSITY PATCH IMAGE

| TONER CHARACTER INFORMATION = "0" | | DEVELOPER ROLLER ROTATING TIME(sec) | | | |
|--------------------------------------|-----------|-------------------------------------|-------|-------|--------|
| | | ~1325 | ~3975 | ~6625 | ~10600 |
| DOT COUNT | ~1000000 | 0.185 | 0.182 | 0.181 | 0.180 |
| | ~2000000 | 0.182 | 0.181 | 0.180 | 0.180 |
| | ~6666666 | 0.181 | 0.180 | 0.180 | 0.180 |
| | ~12000000 | 0.180 | 0.180 | 0.180 | 0.180 |

FIG. 15

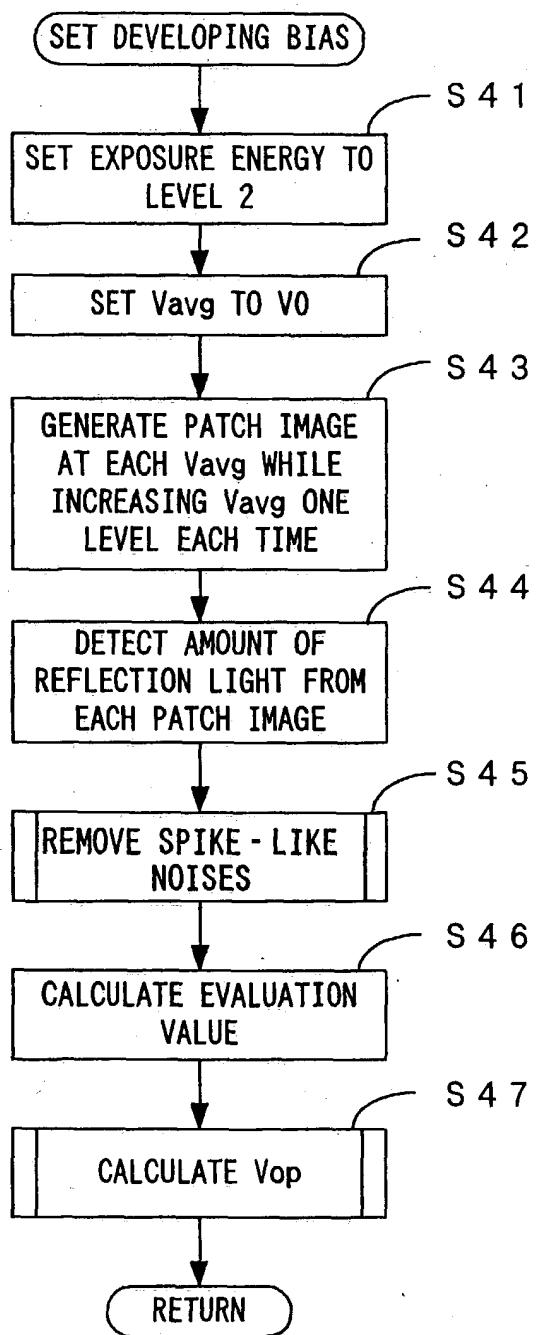


FIG. 16

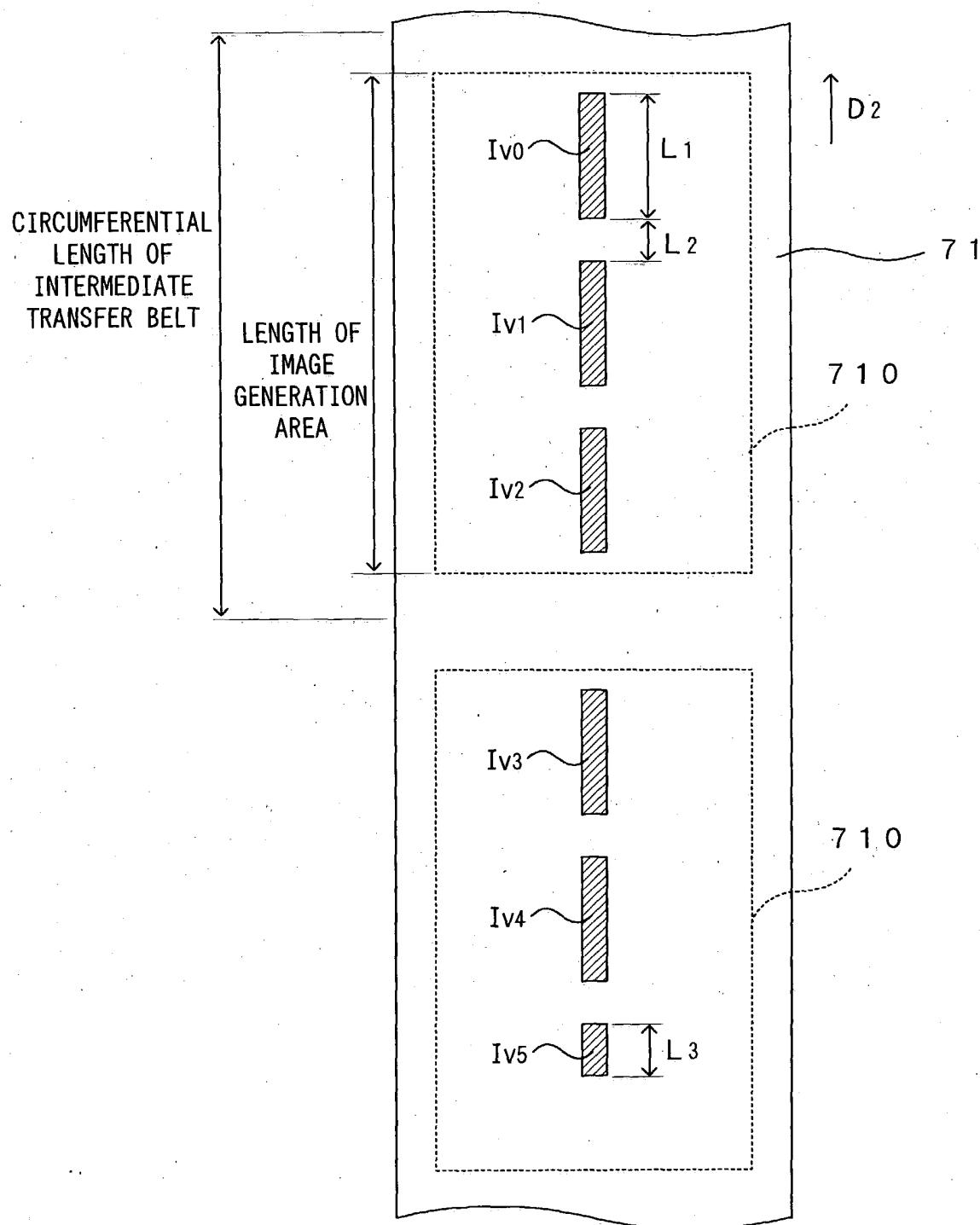


FIG. 17A
FIG. 17B

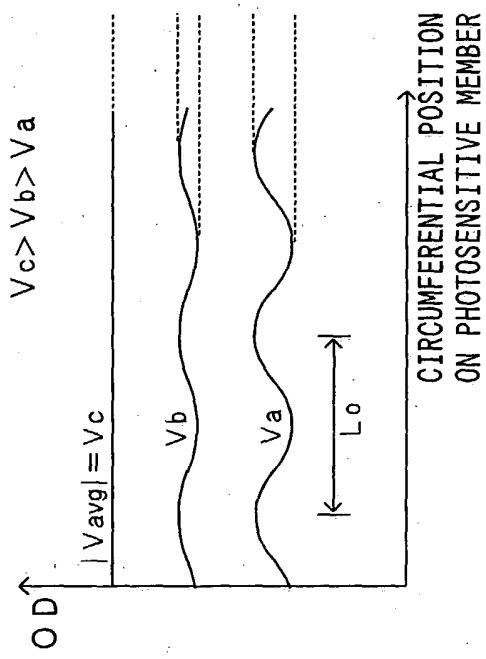
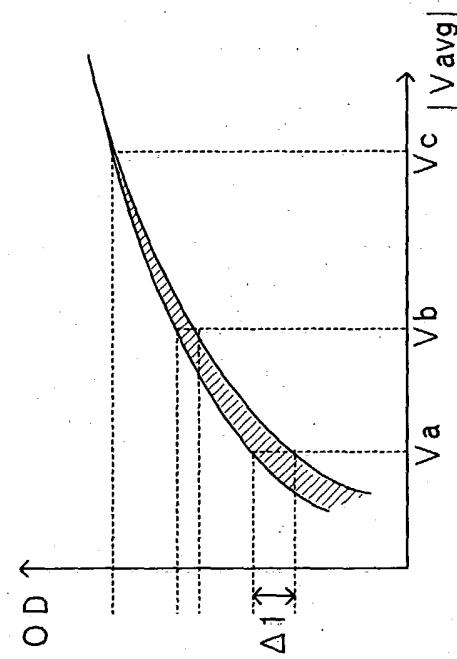
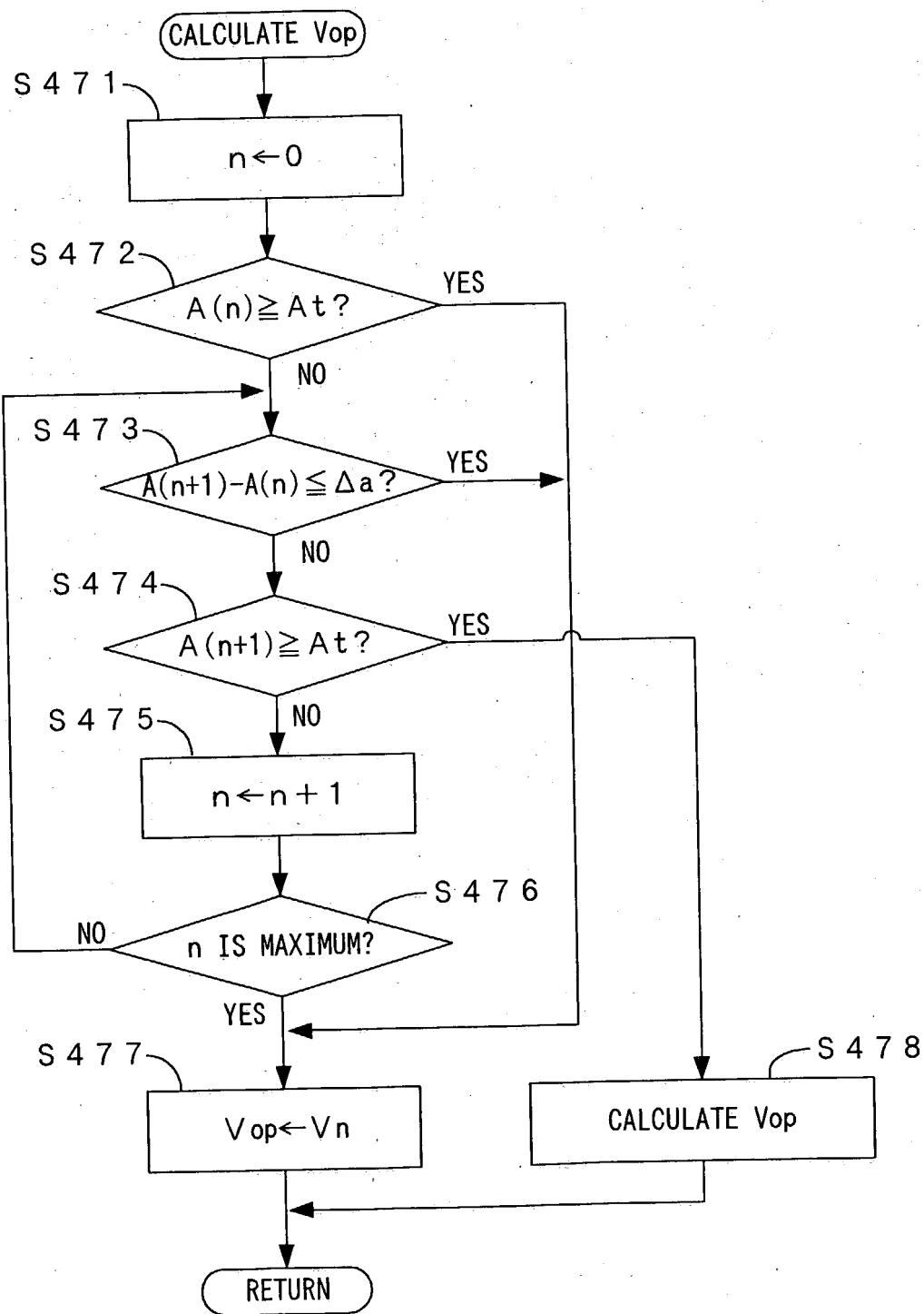


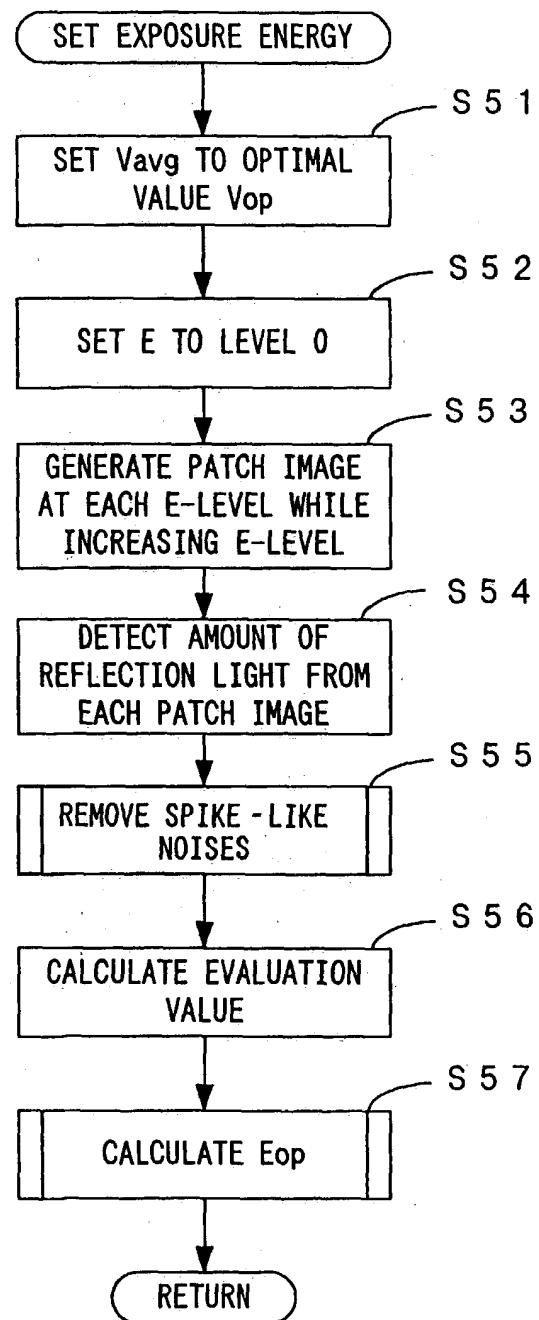
FIG. 17 B



F I G . 1 8



F I G . 1 9



F I G . 2 0

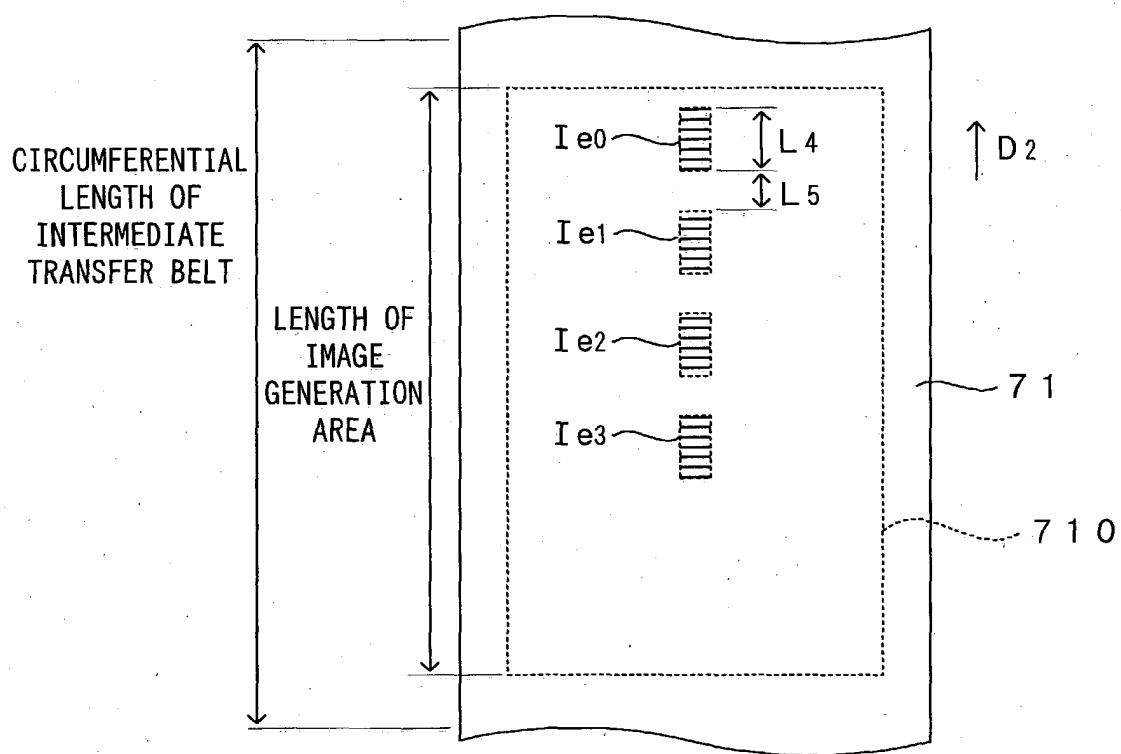
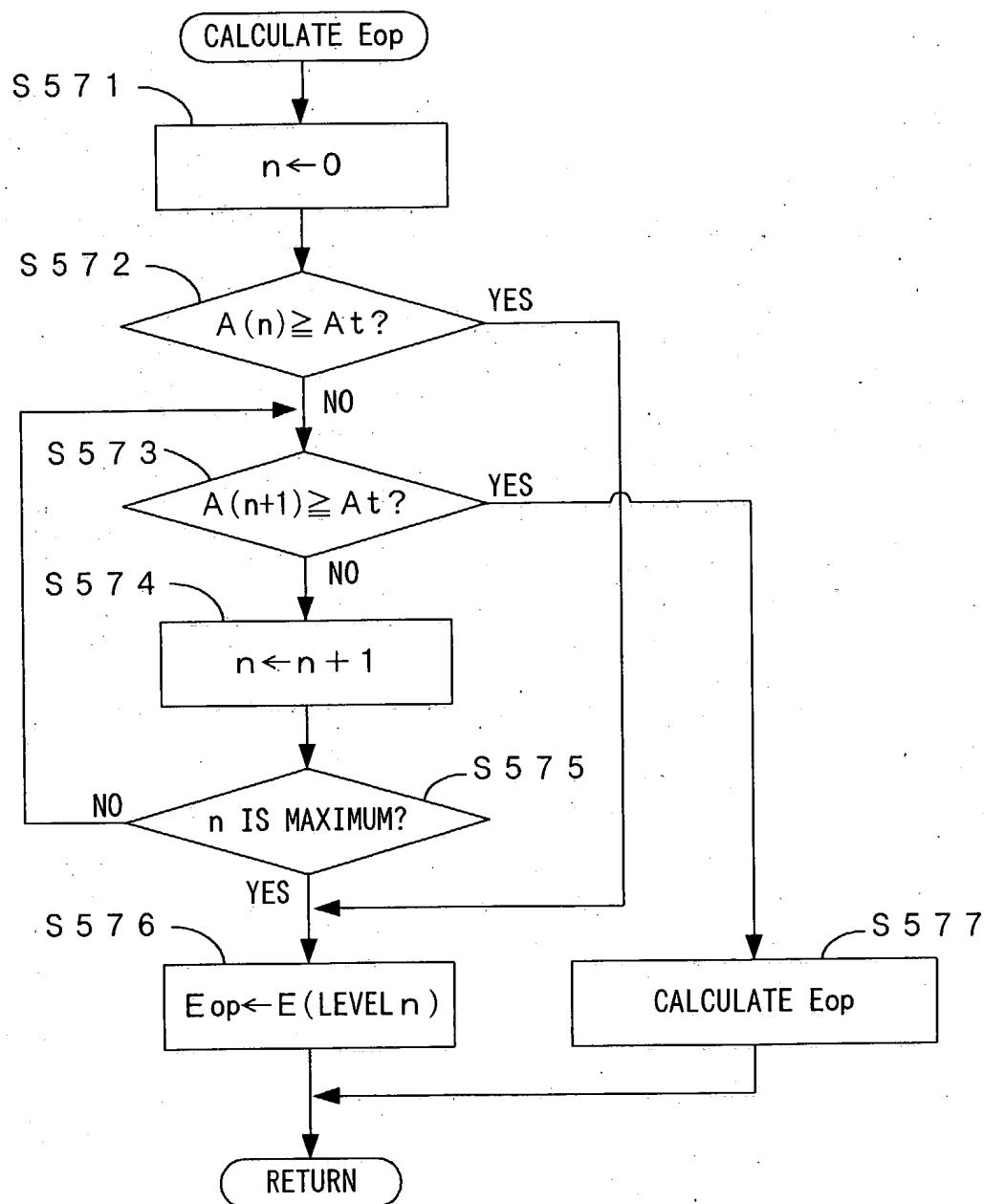
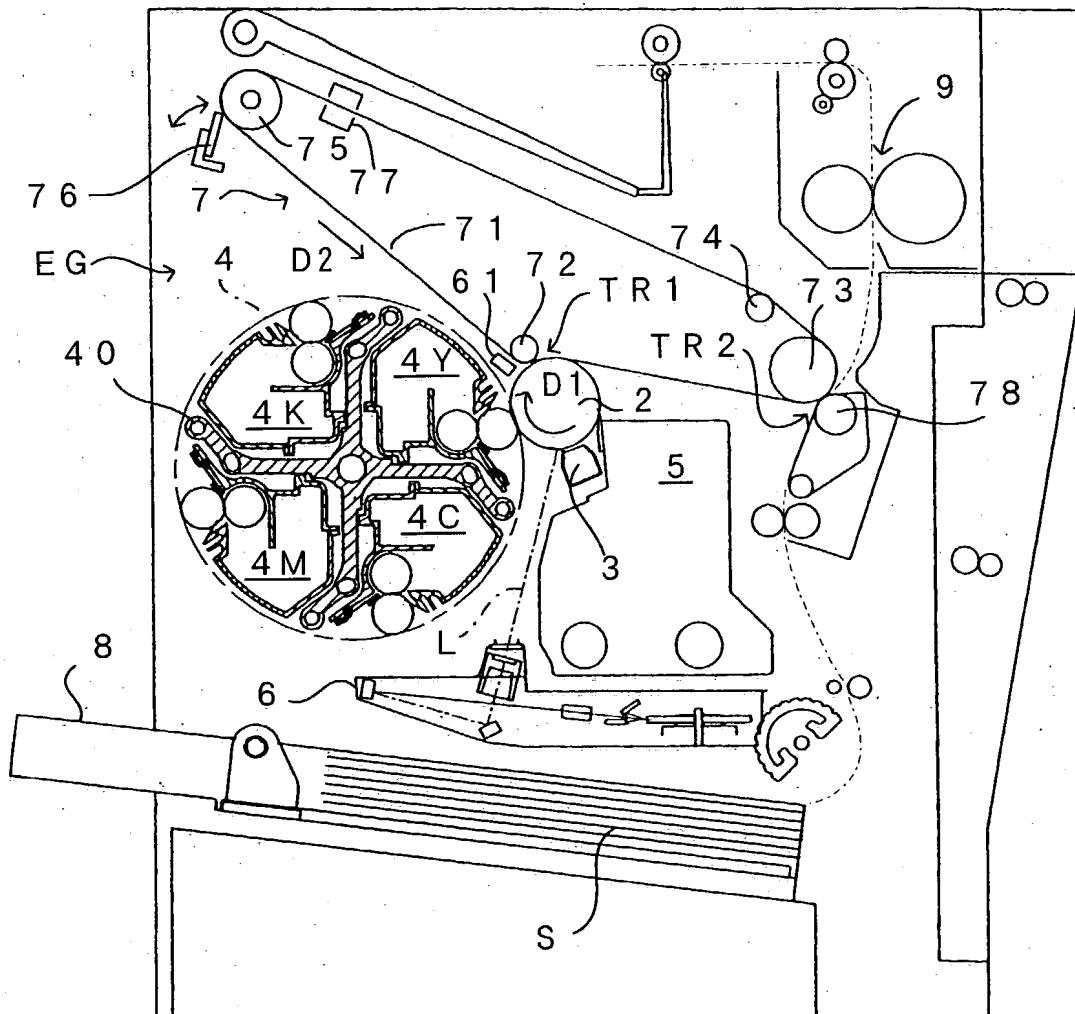


FIG. 21



F I G . 2 2



F I G . 2 3

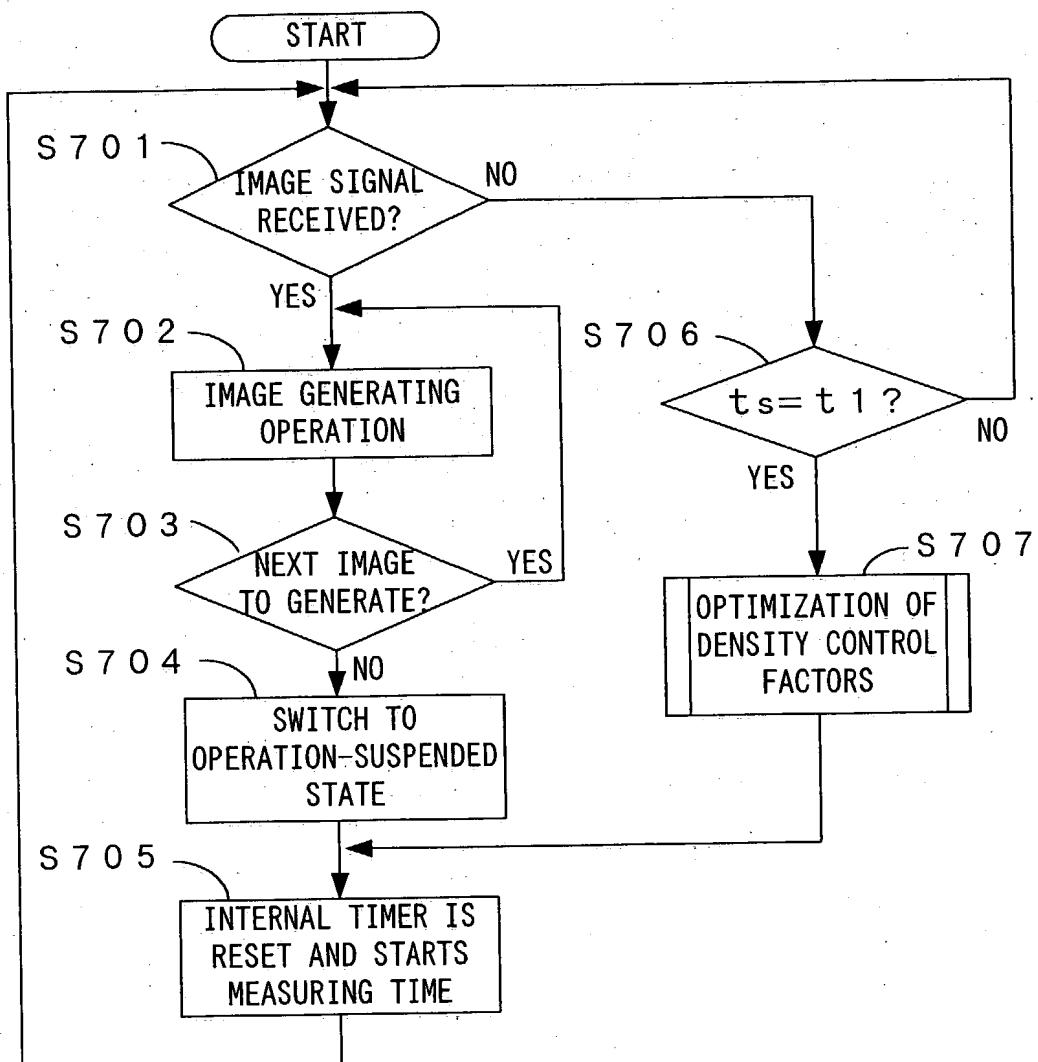


FIG. 24 A

$ts < t_1$

 IMAGE GENERATING OPERATION

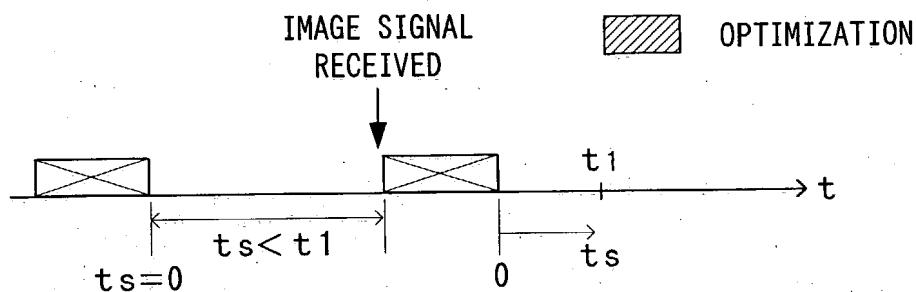


FIG. 24 B

$ts = t_1$

 OPTIMIZATION

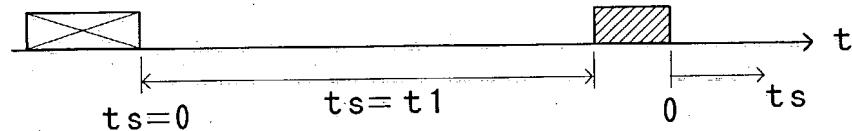
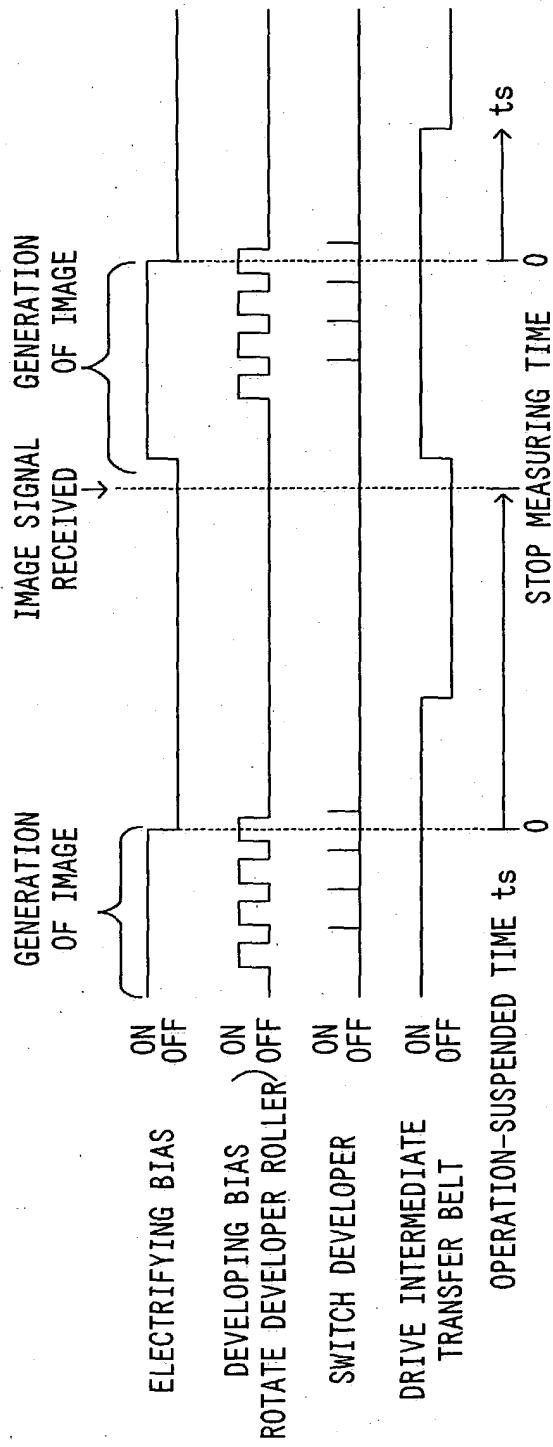
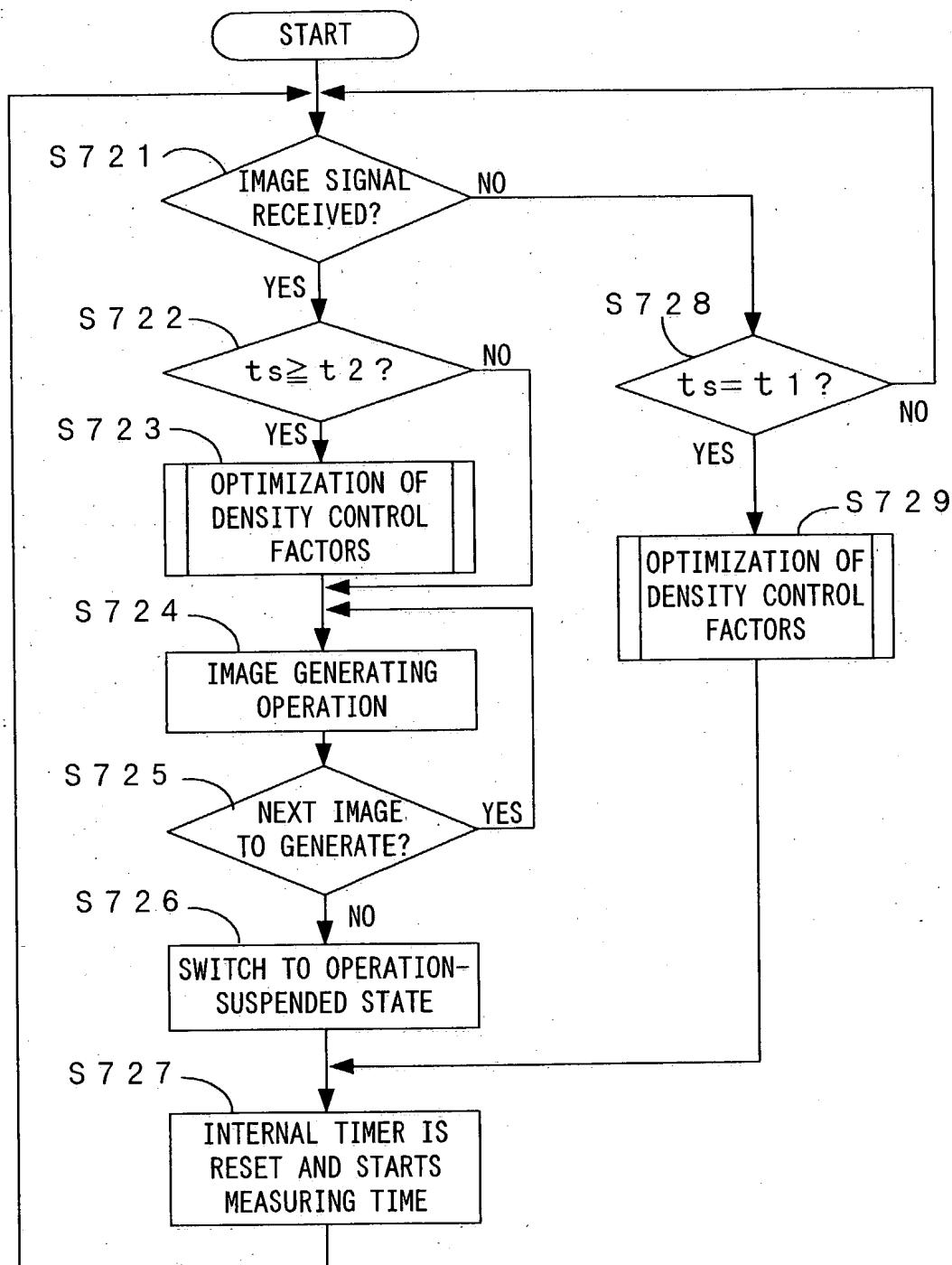
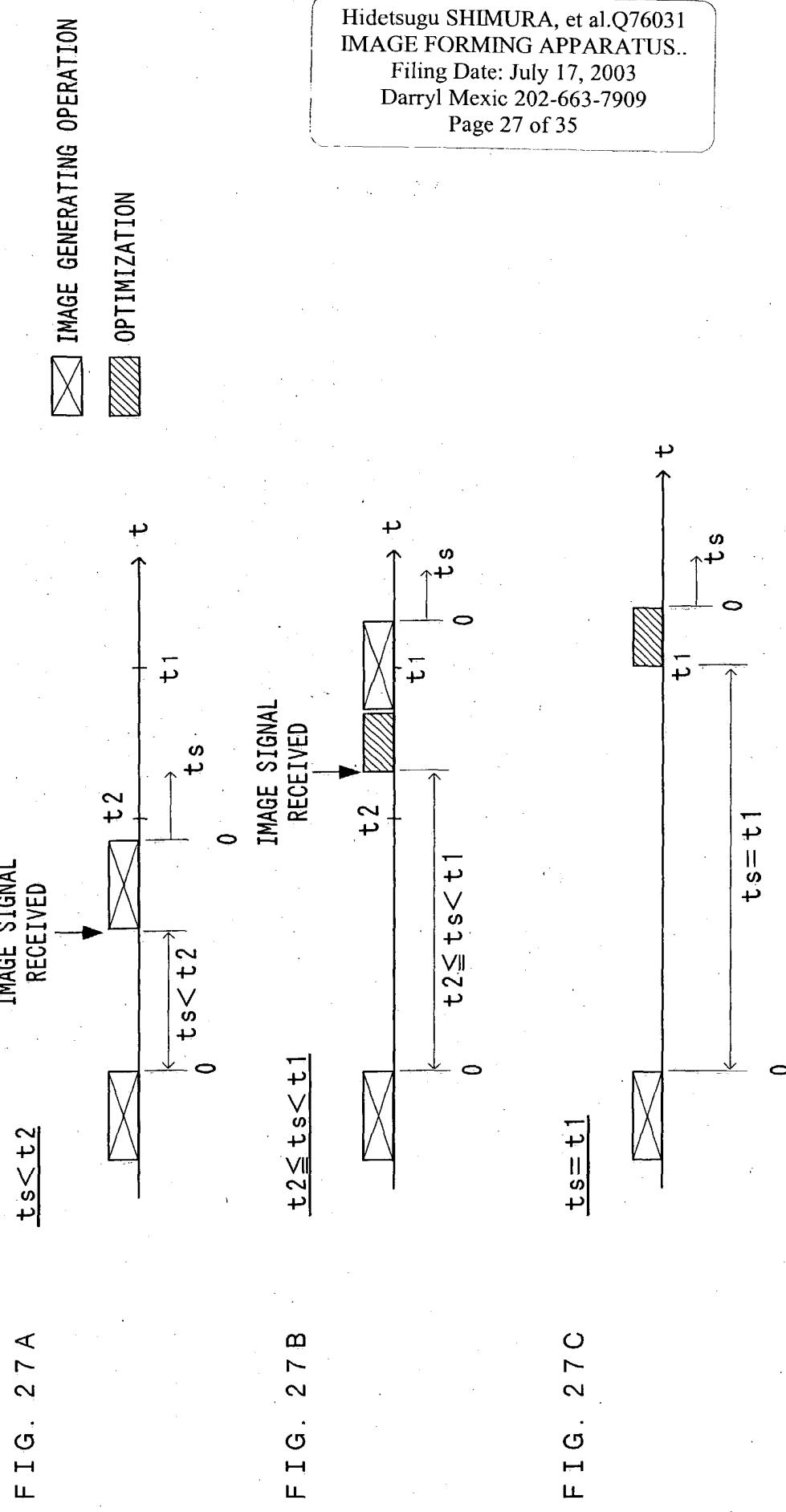


FIG. 25

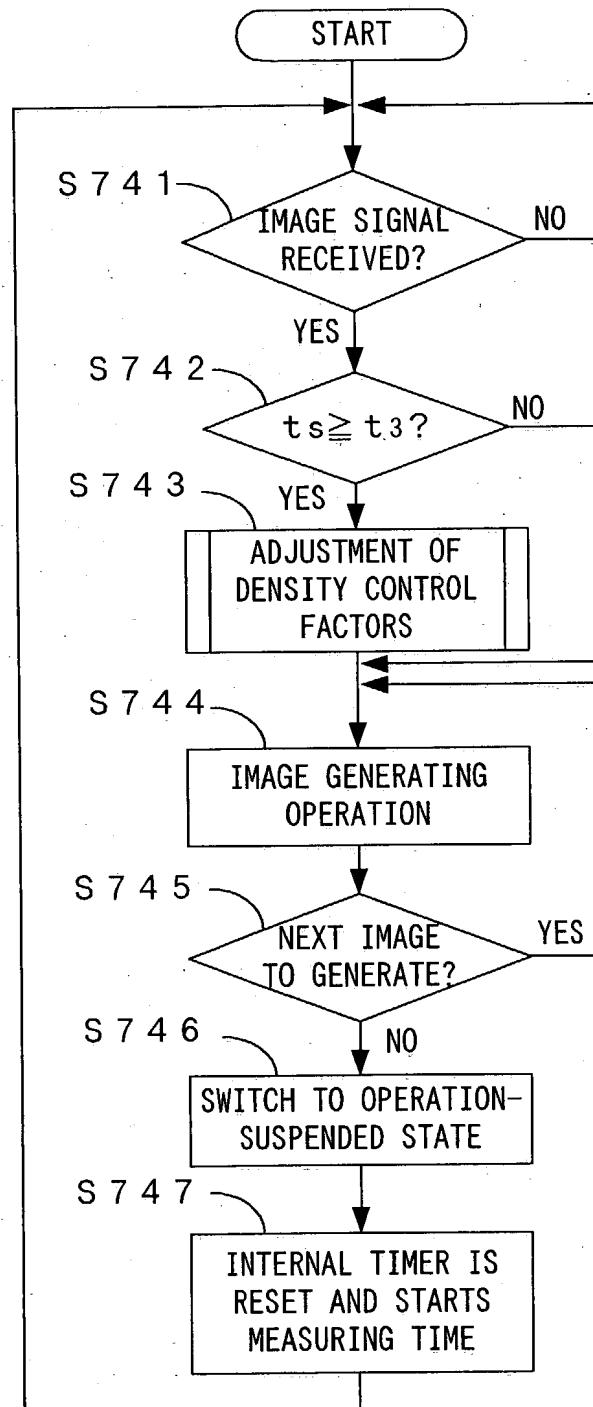


F I G . 2 6





F I G . 2 8



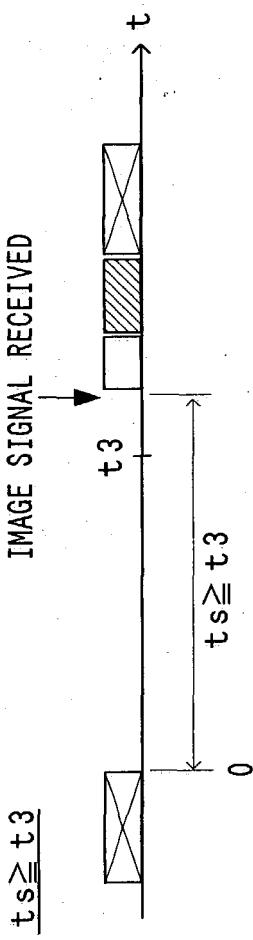
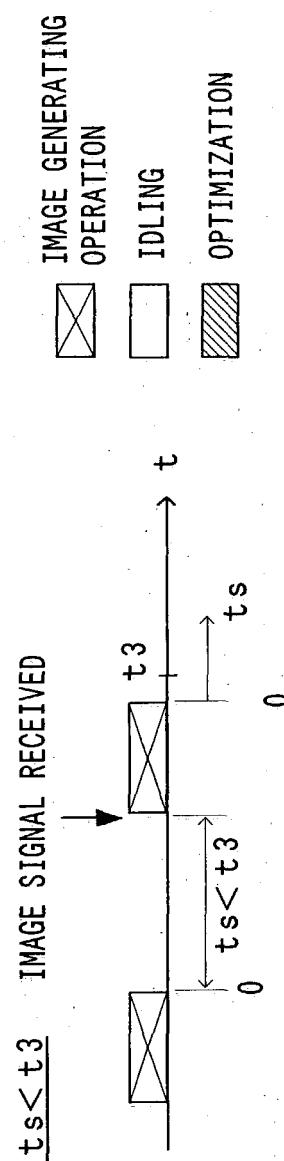


FIG. 30

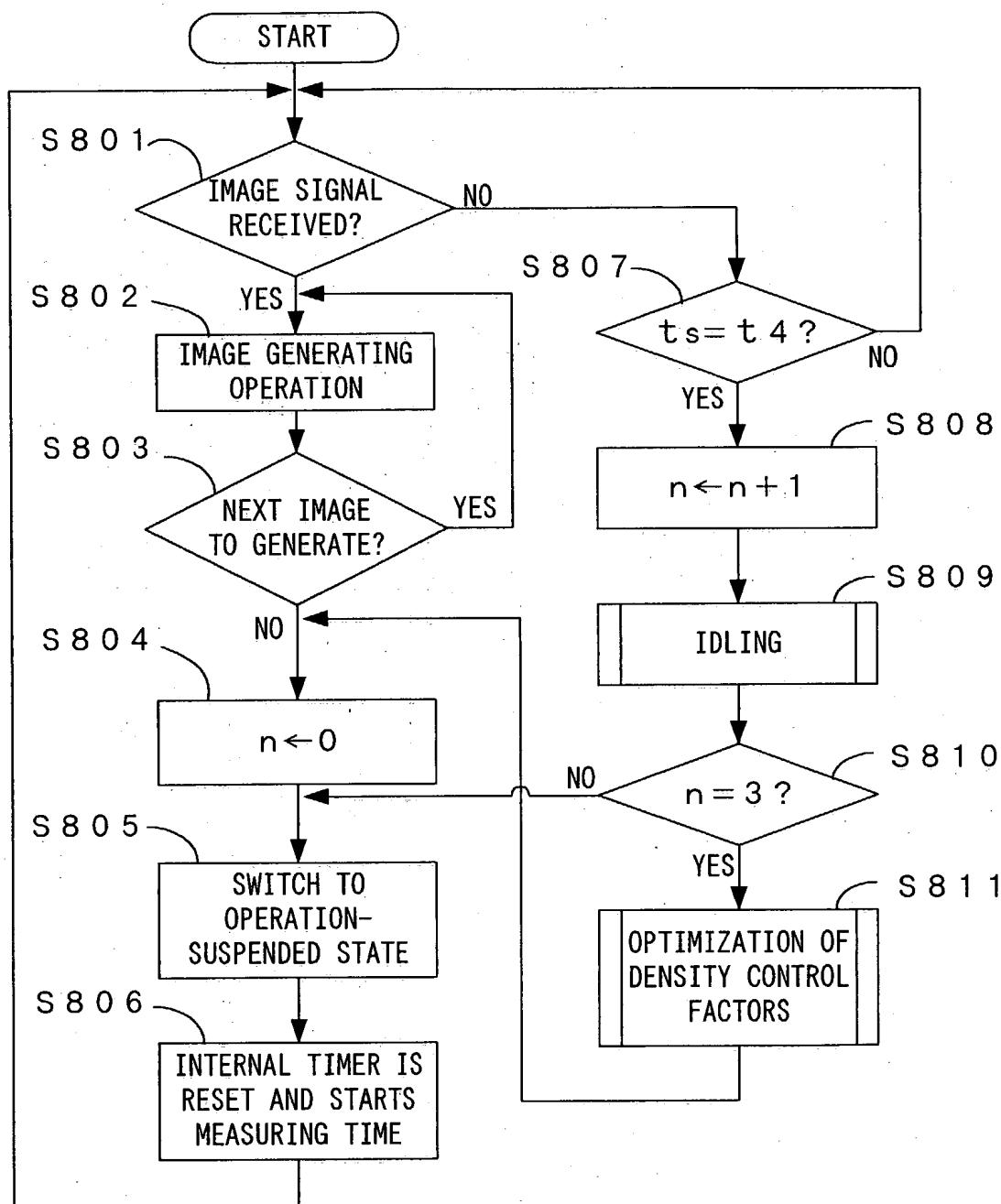


FIG. 31

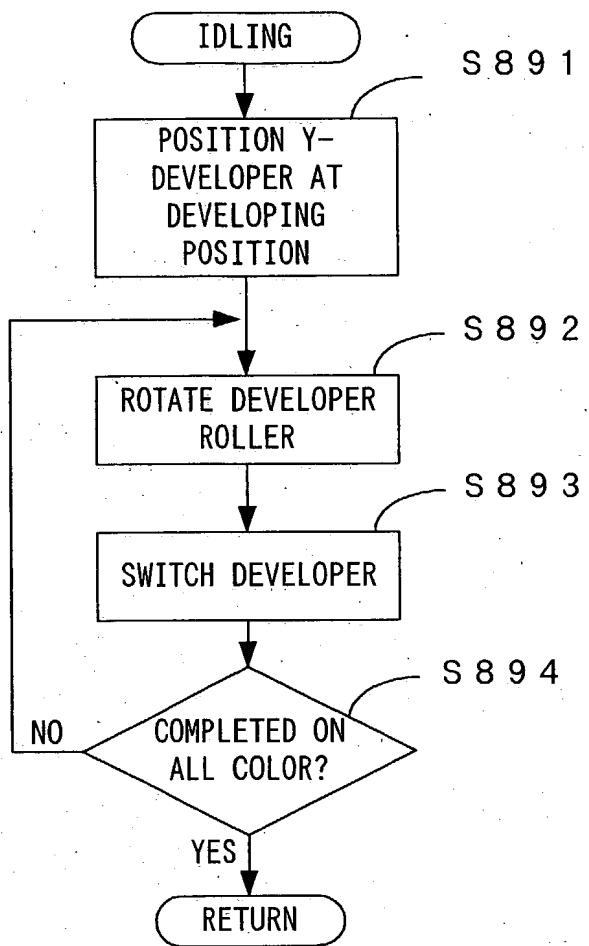


FIG. 32 A

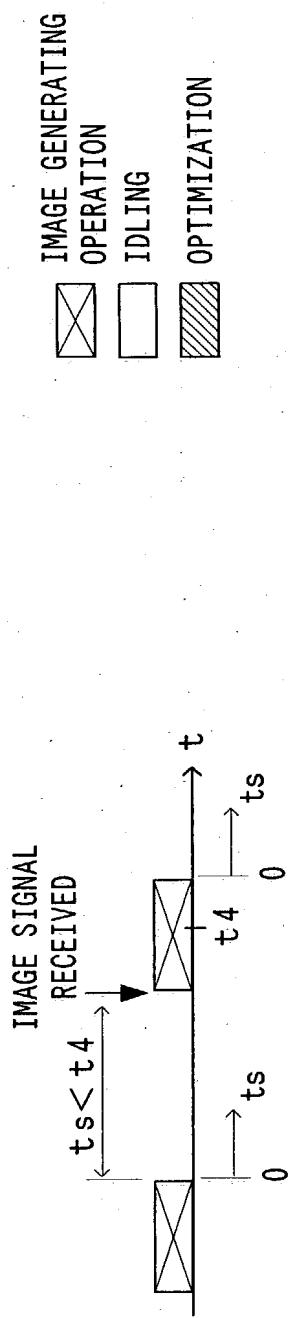


FIG. 32 B

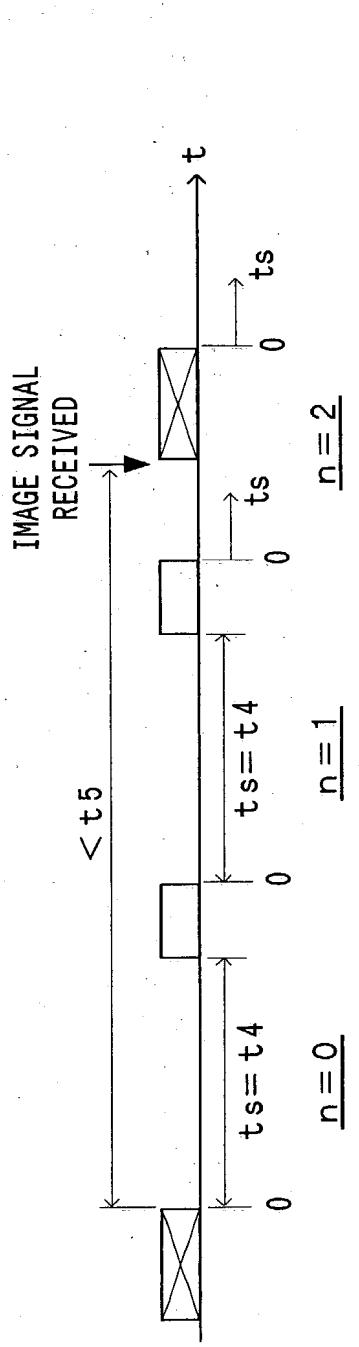


FIG. 32 C

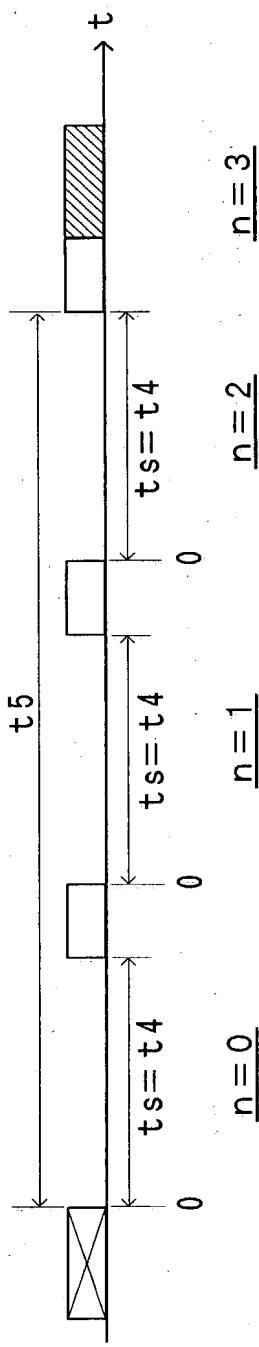
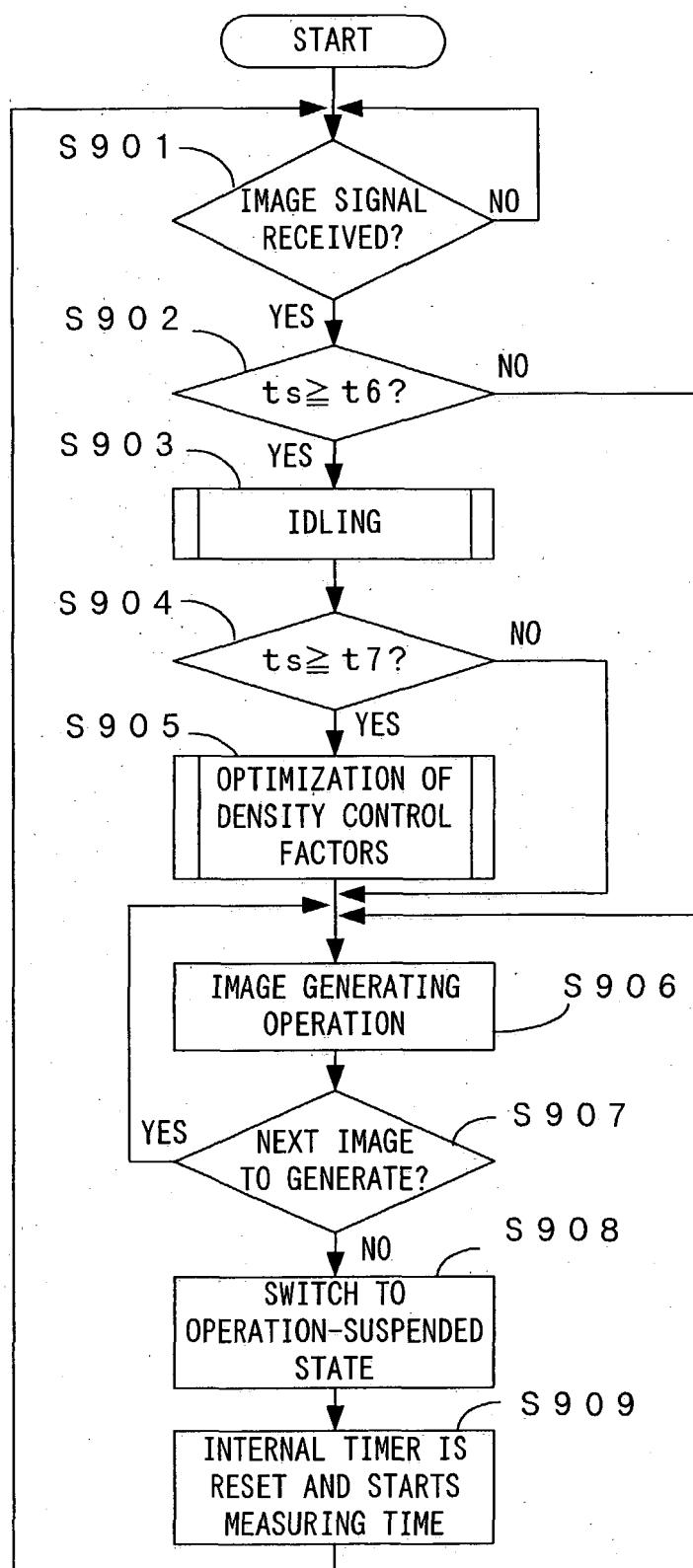


FIG. 33



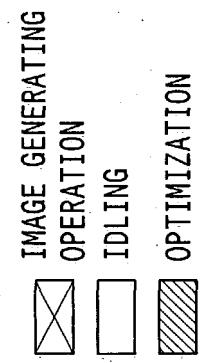


FIG. 34 A $t_s < t_6$ IMAGE SIGNAL RECEIVED

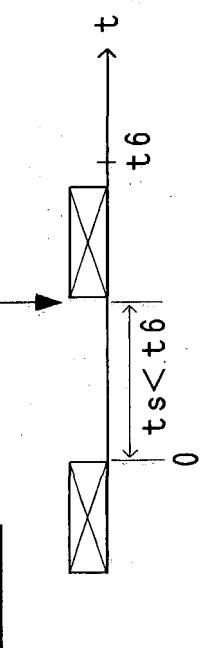


FIG. 34 B $t_6 \leq t_s < t_7$ IMAGE SIGNAL RECEIVED

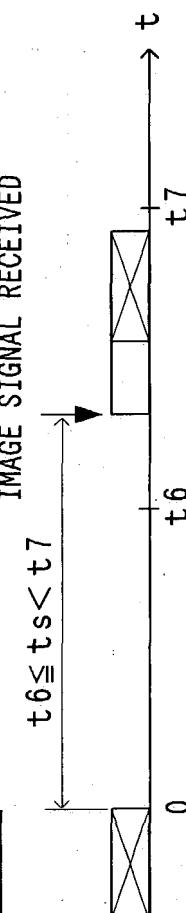
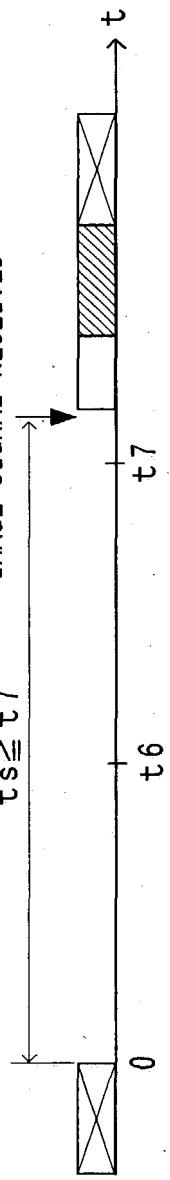


FIG. 34 C $t_s \geq t_7$ IMAGE SIGNAL RECEIVED



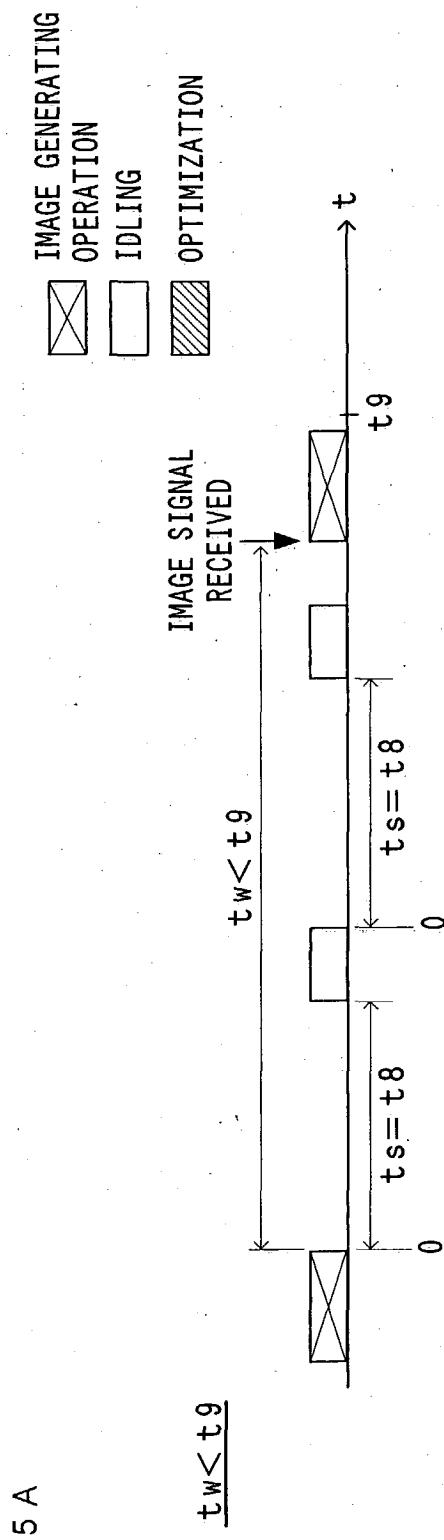


FIG. 35 B

